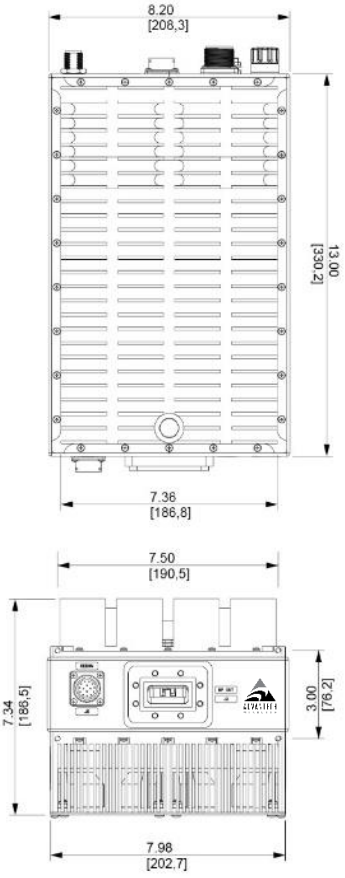
Denali-X Line

X-Band GaN SSPA BUC

Overview

An ideal solution for both mobile and fixed Communication terminals. The Denali-X Line SSPAs / BUCs are designed for high efficiency resulting in an optimal compact form factor with high performance and reliability. With the advanced customer interface and HTTP embedded web page, the operator is able to monitor and control the BUC and the System Redundancy.

- X-Band: 150W / 200W / 250W



Features

- Compact size
- Available in AC
- Up to 250W of RF Output Power
- Up to 125W of Linear Power
- Built-in monitoring of critical parameters such as: RF power detection, mute control, over temperature shutdown, summary alarm
- IP55 rated housing and fan (weather proof construction)
- M&C Interfaces included: RS485, RS232, Ethernet and dry-contacts
- WEB interface and SNMP monitoring
- Redundant Ready
- 1:1 and 1:2 built into the BUC eliminating external controller
- Other frequency ranges available
- Internal 10MHz reference
- Optional output sample port
- Optional Remote control unit

Denali-X Line GaN SSPA BUC

Technical Specifications

X-Band			
Electrical Characteristics	**150W**	**200W**	**250W**
RF Output at P Sat	52 dBm	53 dBm	54 dBm
RF Output at P Lin	49 dBm	50 dBm	51 dBm
Output Frequency Range	7.9 – 8.4 GHz		
Input Frequency Range (BUC)	950 – 1450 MHz		
Input Frequency Range (SSPA)	7.9 – 8.4 GHz		
Local Oscillator Frequency	6.95 GHz		
Gain Stability Over Temperature	± 1.5 dB nominal		
Gain Variation at fixed temperature	± 0.5 dB max over any 40 MHz; ± 2.0 dB over full band		
Linear Gain	70 dB min.		
User Adjustable Gain	20 dB in 0.5 dB steps		

Spectral Re-growth	-30dBc @PLinear				
Third order IMD (2 equal tones 5MHz apart)	-25 dBc, with 2 equal carriers (5MHz spacing) at 3dB total power back off from rated power (P Sat -3dB)				
10MHz Reference	0dBm ± 5.0 dB - External via IF / (Internal 10MHz reference optional)				
	@ 100 Hz	**@ 1 KHz**	**@ 10 KHz**	**@ 100 KHz**	**@ 1 MHz**
Ref Phase Noise Requirement		-140 dBc/Hz max	-150 dBc/Hz max	-155 dBc/Hz max	
Local Oscillator Phase Noise	-63 dBc/Hz max	-73 dBc/Hz max	-83 dBc/Hz max	-93 dBc/Hz max	-103 dBc/Hz max
Output Spurious	-60dBc max @PLinear				
Harmonics	-60dBc max @PLinear				
AM/PM	< 2deg/dB at PLin				
VSWR	Input (1:50:1) Output (1.30:1)				

Power consumption			
X-Band	**150W**	**200W**	**250W**
Power consumption (Watts)	900W	1000W	1100W
Power requirement	110-220 VAC		

Interface			
Output Interface	Waveguide, CPR 112G (Grooved)		
Input Interface	N-Type Female, 50 Ohms, F-Type Female, 75 Ohms (optional)		
Connectors	AC Connector: MS3102R16-10P	M&C: MS3112E14-19P	Redundancy: MS3112E14-15P (Optional)

Mechanical	
Cooling	Forced Air
Dimensions (L x W x H)	13 x 8.2 x 6.3 / 33.02 x 20.83 x 16
Weight	27.8 / 12.5

Environmental			
	Temperature Range (ambient)	**Humidity**	**Altitude**
	-40°C to + 55°C (operating) -40°C to + 75°C (storage)	0 to 100% (condensing)	10,000 ft ASL

Ref.: PB-AWT-DMLg-X-19289-1

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Specifications are subject to change without notice.